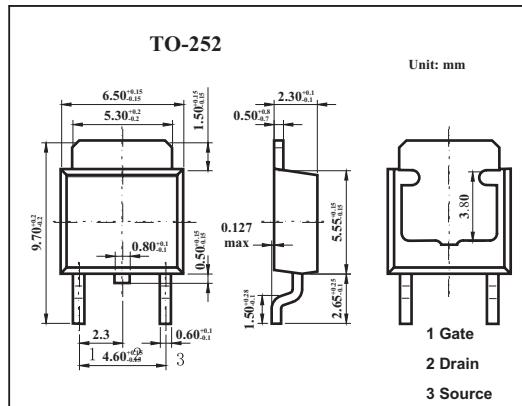


2SK3482

■ Features

- Super low on-state resistance:
 $R_{DS(on)1} = 33m\Omega$ MAX. ($V_{GS} = 10V$, $I_D = 18A$)
 $R_{DS(on)2} = 39 m\Omega$ MAX. ($V_{GS} = 4.5V$, $I_D = 18A$)
- Low C_{iss} : $C_{iss} = 3600 pF$ TYP.



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Drain to source voltage	V_{DSS}	100	V
Gate to source voltage	V_{GSS}	± 20	V
Drain current	I_D	± 36	A
	I_{Dp}^*	± 100	A
Power dissipation $T_c=25^\circ C$ $T_a=25^\circ C$	P_D	50	W
		1.0	
Channel temperature	T_{ch}	150	$^\circ C$
Storage temperature	T_{stg}	-55 to +150	$^\circ C$

* $PW \leq 10 \mu s$, Duty Cycle $\leq 1\%$

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain cut-off current	I_{DSS}	$V_{DS}=100V, V_{GS}=0$			10	μA
Gate leakage current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0$			± 10	μA
Gat cutoff voltage	$V_{GS(off)}$	$V_{DS}=10V, I_D=1mA$	1.5	2.0	2.5	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS}=10V, I_D=18A$	12	23		S
Drain to source on-state resistance	$R_{DS(on)1}$	$V_{GS}=10V, I_D=18A$		27	33	$m\Omega$
	$R_{DS(on)2}$	$V_{GS}=4.5V, I_D=18A$		29	39	$m\Omega$
Input capacitance	C_{iss}	$V_{DS}=10V, V_{GS}=0, f=1MHz$		3600		pF
Output capacitance	C_{oss}			360		pF
Reverse transfer capacitance	C_{rss}			190		pF
Turn-on delay time	t_{on}	$I_D=18A, V_{GS(on)}=10V, R_G=0\Omega, V_{DD}=50V$		15		ns
Rise time	t_r			10		ns
Turn-off delay time	t_{off}			68		ns
Fall time	t_f			6		ns
Total Gate Charge	Q_G	$I_D = 36A, V_{DD} = 80V, V_{GS} = 10V$		72		nC
Gate to Source Charge	Q_{GS}			10		nC
Gate to Drain Charge	Q_{GD}			19		nC